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WATER SUPPLY OUTLOOK FOR UTAH

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS

In cooperation with U.S. Forest Service, Bureau of Reclamation, Utah Fish and Game Dept., Utah State University, U.S. National Park Service, U.S. Geological Survey, and other Federal, State, and private organizations.

AS OF
JUNE 1, 1973

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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UTAH STATE DEPT. OF NATURAL RESOURCES

Report prepared by

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FEDERAL BLDG., ROOM 4012
SALT LAKE CITY, UTAH 84111

WATER SUPPLY OUTLOOK

as of

JUNE 1, 1973

Snow Cover measured the last week of May indicates general snow cover above about 9,000 feet. Cooler than average temperatures have delayed melt above that elevation.

Mountain Precipitation varied over the State from as low as 30% of average on the south side of the Uintahs to as high as 176% of the May average at Monte Cristo Ranger Station between the Ogden and Bear drainages.

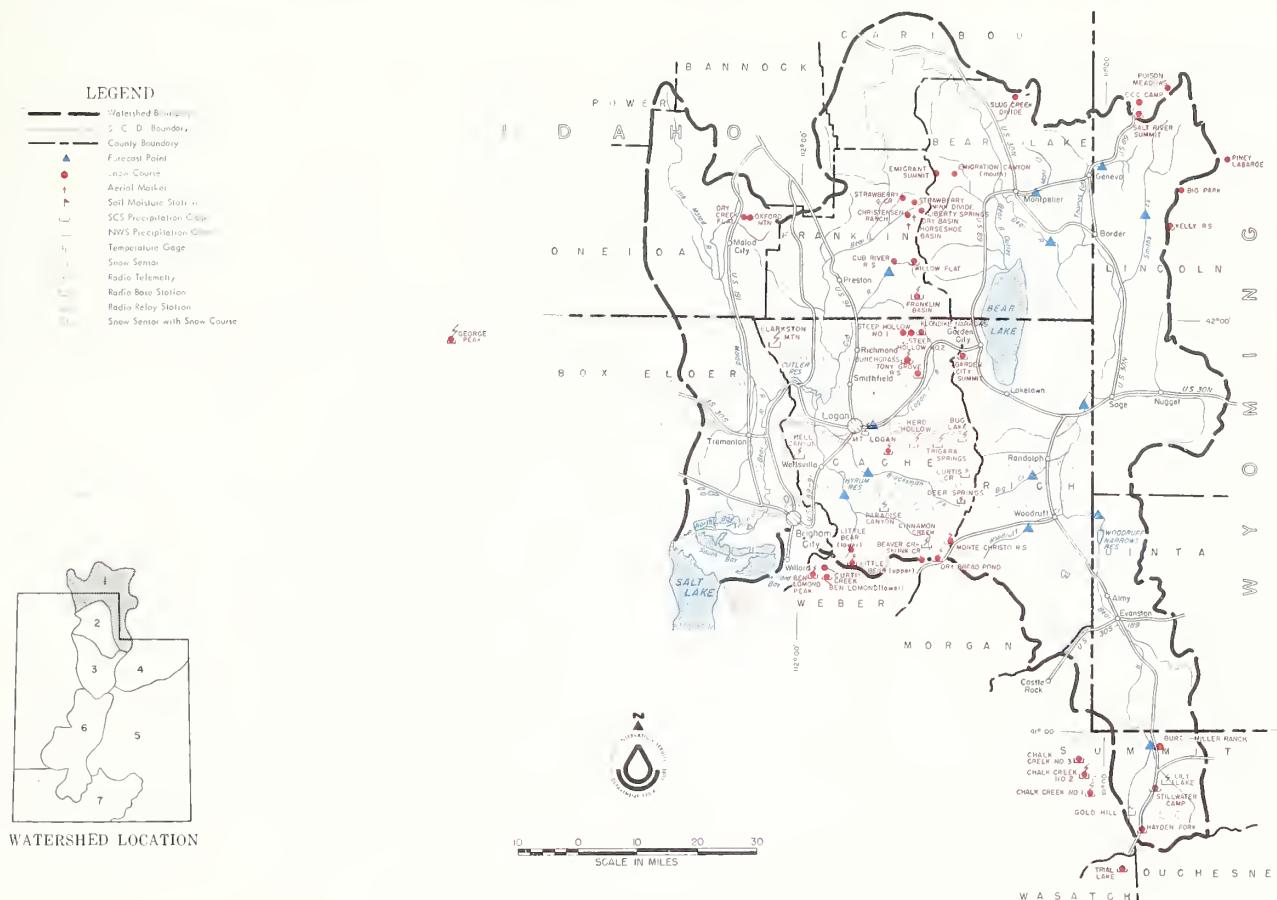
Reservoir Storage is well above average with most reservoirs full or nearly full. The elevation of the Great Salt Lake was 4,200.55 feet above mean sea level or 0.95 foot higher than a year ago and 9.20 feet above the all time record low of October 1963. The lake rose 0.15 foot during May according to a report by the U. S. Geological Survey.

Streamflow was excessive at all index stations except the Weber at Oakley where it was 109% of media. Most streams are progressing about as forecast on May 1. Southern Utah is experiencing well above average flows with flows in the northern part of the State ranging from average to 50% above average flows.

WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1973

THE WATER SUPPLY OUTLOOK REMAINS ABOVE AVERAGE

SNOW COVER remains at only the highest, more protected areas and even these areas have less water content than last June 1 and are well below two years ago.

PRECIPITATION at mountain locations was generally 20 to 30% less than average with the exception of Garden City Summit (136%) and Monte Cristo (176%).

RESERVOIR STORAGE is above average although Bear Lake is about 60,000 acre feet less than last June 1. Woodruff Narrows, Hyrum and Porcupine are full.

Most streams in the area have peaked but are expected to hold up longer in June than previously expected due to cool weather delaying some snow melt. May-July forecasts remain about the same as published on May 1 ranging from near average to 60% above average on Little Bear River.

Report prepared by
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

BEAR RIVER BASIN

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	XAGMEX*
UPPER BEAR RIVER (Above Harer, Idaho)						2 yrs. ago
Burts-Miller Ranch	7900	5/24	0	0.0	0.0	0.0
Hayden Fork	9400	5/24	0	0.0	0.0	5.9
Monte Cristo R.S.	8960	5/30	13	5.9	8.4	25.4
Stillwater Camp	8550	5/24	0	0.0	0.0	0.0
Trial Lake x	9800	5/30	37	18.0	21.3	29.9
LOWER BEAR RIVER (Below Harer, Idaho)						
Beaver Crk-Skunk Crk	7150	5/30	0	0.0	0.0	0.0
Dry Bread Pond x	8230	5/30	0	0.0	0.0	0.0
Garden City Summit	7600	5/29	0	0.0	5.1	12.3
Klondike Narrows	7400	5/29	0	0.0	0.0	2.7
Monte Cristo R. S.	8960	5/30	13	5.9	8.4	25.4
Steep Hollow #1	8500	5/29	28	13.0	33.4	48.7
Steep Hollow #2	7700	5/29	0	0.0	5.0	20.8
Tony Grove R. S.	6250	5/29	0	0.0	0.0	0.0
Willow Flat	6100	5/29	0	0.0	0.0	- - -

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>BEAR RIVER</u>							
Burts-Miller Ranch	7900	5/24	1.77	--	17.02	--	--
Bug Lake (3)	7950	No Reading	--	--	--	--	--
Cinnamon Crk. (3)	7300	5/25	1.48	--	19.98	--	--
Clarkston (3)	6300	No Reading	--	--	--	--	--
Curtis Creek (3)	8450	No Reading	--	--	--	--	--
Deer Springs (3)	8450	5/25	3.78	--	31.07	--	--
Dry Bread Pond	8230	5/30	2.09	3.05*	28.57	26.95*	106
Franklin Basin (3)	8000	5/25	4.87	--	--	--	--
Garden City Summit	7600	5/29	2.51	1.84*	20.52	23.53	87
George Peak (3)	8800	5/25	2.14	--	27.20	--	--
Gold Hills (3)	10000	5/25	2.15	--	27.32	--	--
Hayden Fork	9300	5/24	2.17	--	27.10	--	--
Herd Hollow (3)	7350	5/25	1.75	--	21.12	--	--
Kelly R.S.	8200	No Reading	--	--	--	--	--
Klondike Narrows	7400	No Reading	--	--	--	--	--
Lily Lake (3)	9300	No Reading	--	--	--	--	--
Little Bear (upper)	6850	5/25	2.49	--	33.90	--	--
Monte Cristo #2	8960	5/30	4.92	2.79b	31.10	33.10b	94
Sagebrush Flat x	6300	5/30	1.76	2.21b	20.30	18.20	111
Stillwater Camp	8550	5/24	1.83	2.40b	18.94	17.92*	106
Tony Grove R.S.	6250	5/25	1.33	--	18.78	--	--
Tony Grove Lake (3)	8400	5/25	3.80	--	35.66	--	--
Trial Lake x	9800	5/30	2.42	3.15	33.77	28.20	120
Trigara Springs (3)	7200	No Reading	--	--	--	--	--
Willow Flat	6100	5/29	2.55	3.27b	27.76	28.44	98

(3) Data obtained by radio - USU-SCS cooperative sites

b Average of all past records within the 15-yr period, but less than 15 years.

x Adjacent drainage

* Partly estimated

“The Conservation of Water begins with the Snow Survey”

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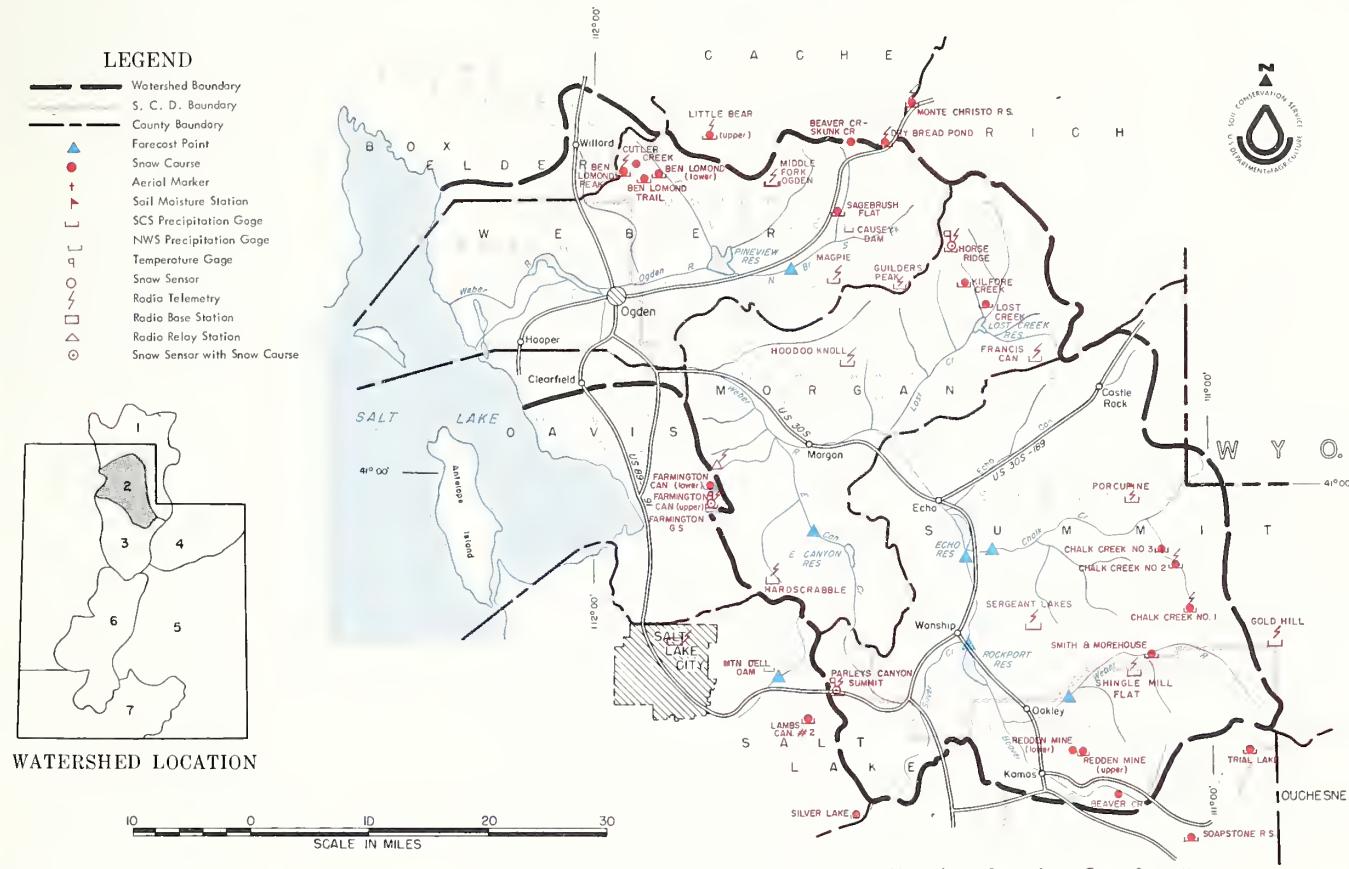
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ED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER remains on only the highest and most protected areas of the watershed. Ben Lomond Peak on the Ogden had 16.2 inches of water content on May 31 compared to 4.7 inches last June 1. Monte Cristo had 5.9 inches compared to 8.4 last year. Chalk Creek #1 had 11.4 inches of water and Redden Mine upper had 1.2 inches of water on the Weber.

PRECIPITATION at mountain locations varied from 76% of average on the North Fork of the Ogden to 176% at Monte Cristo.

RESERVOIR STORAGE is very good - most reservoirs are full or nearly full as of June 1.

STREAMFLOW FORECASTS were revised to reflect May precipitation and runoff resulting in a 1 or 2% decrease on the upper Weber and South Fork of the Ogden and a 10 to 15% increase on Lost Creek and East Canyon Creeks.

Pineview Inflow and Chalk Creek forecasts remained about the same as May 1

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at 159 and 142% of the May-June average respectively. Peak flows from snow melt were reached in May on most streams and were regulated by reservoir storage to allow little, if any, damage this season.

WEBER-OGDEN WATERSHEDS

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<u>OGDEN RIVER</u>						2 yrs. ago
Ben Lomond (lower)	6000	5/30	0	0.0	0.0	0.0
Ben Lomond Peak	8000	5/31	29	16.2	4.7	18.2
Ben Lomond Trail	6000	5/30	0	0.0	0.0	0.0
Cutler Creek	6780	5/31	0	0.0	0.0	0.0
Dry Break Pond	8230	5/30	0	0.0	0.0	2.0
Monte Cristo R.S.	8960	5/30	13	5.9	8.4	25.4
Sagebrush Flat	6300	5/30	0	0.0	0.0	0.0
<u>WEBER RIVER</u>						
Beaver Crk Skunk Crk	7150	5/30	0	0.0	0.0	0.0
Beaver Creek R.S.	7500	5/30	0	0.0	0.0	0.0
Chalk Creek #1	9100	5/29	28	11.4		
Chalk Creek #2	7900	5/29	0	0.0	0.0	0.0
Chalk Creek #3	7500	5/29	0	0.0	0.0	0.0
Farmington Canyon (lower)	6950	5/29	0	0.0	0.0	0.0
Farmington Canyon (upper)	8000	5/29	15	7.8	5.9	16.4
Horse Ridge (2)	8260	6/1	0	0.0	0.0	8.2
Lamb's Canyon x	6600	5/29	0	0.0	0.0	
Park City Smt. **	9300	No Reading			8.6	--
Parley's Canyon Smt.	7500	5/29	0	0.0	0.0	0.0
Redden Mine (upper)	9000	5/30	3	1.2	0.0	4.4
Smith & Morehouse	7600	5/29	0	0.0	0.0	0.0
Trial Lake x	9800	5/30	37	18.0	21.3	29.9
** - Snow pillow reading cooperatively by Park City				Resort		
b - Average of all past records within the 15 year				period, but less		
than 15 years						
x - Adjacent drainage						
(2) - Data obtained by radio						
(3) - Data obtained by radio - USU-SOS cooperative sites						

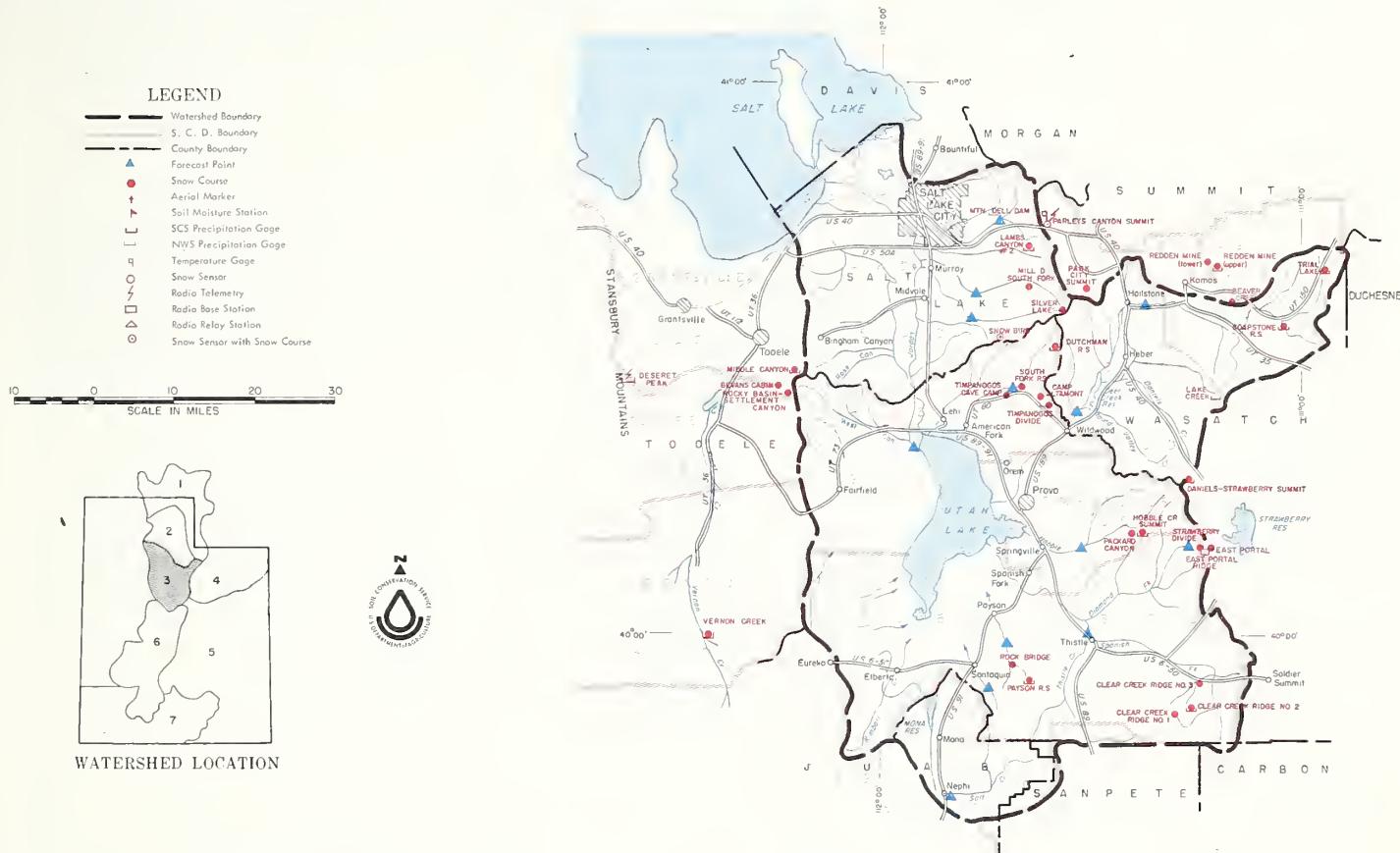
PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
OGDEN RIVER							
Ben Lomond Peak a	8000	No Reading	- -	- -	- -	- -	- -
Ben Lomond (lower)	6000	5/30	2.75	- -	39.21	- -	- -
Ben Lomond Trail	6000	5/30	2.82	3.73b	43.51	35.45*	123
Causey Dam	5500	5/30	1.65	2.03b	19.01	- -	- -
Dry Bread Pond	8230	5/30	2.09	3.05*	28.57	26.95*	106
Magpie Flat a	7600	5/25	2.53	- -	27.07	- -	- -
Middle Fork Ogden a	8420	5/25	2.04	- -	35.82	- -	- -
Monte Cristo #2 x	8960	5/30	4.92	2.79b	31.10	33.10b	94
Sagebrush Flat	6300	5/30	1.76	2.21b	20.30	18.20b	111
WEBER RIVER							
Chalk Creek #1 a	9100	5/25	2.73	- -	31.66	- -	- -
Chalk Creek #2 a	7900	No Reading	- -	- -	- -	- -	- -
Chalk Creek #3	7500	5/29	3.05	2.18b	21.22	18.82b	113
Farmington Guard Sta.	7500	5/29	3.75	3.82	42.39	36.12	117
Farmington Rice	7000	5/29	3.53	3.65	44.47	33.57	132
Francis Canyon a	7360	5/25	2.00	- -	- -	- -	- -
Guilders Peak a	8000	5/25	4.19	- -	28.59	- -	- -
Hardscrabble a	6500		- -	- -	- -	- -	- -
Hoodoo Knoll a	8350	5/25	1.95	- -	29.26	- -	- -
Horse Ridge	8260	6/1	2.40	- -	- -	- -	- -
Lost Creek	6125	Not Measured	- -	- -	- -	- -	- -
Mtn. Dell Dam	5500	5/31	1.51	2.13	13.32	16.85	79
Parley's Canyon Smt.	7500	5/29	4.07	2.80	31.97	76.84	119
Porcupine	8100	No Reading	- -	- -	- -	- -	- -
Redden Mine (upper)	9000	5/30	3.15	- -	32.00	- -	- -
Sargent Lake a	8400	5/25	2.15	- -	29.38	- -	- -
Silver Lake (Brighton)x	8725	5/31	2.95	5.47	38.60	36.20	107
Smith & Morehouse	7600	5/29	3.02	2.58*	25.69	22.57	114
Trial Lake x	9800	5/30	2.42	3.15	33.77	28.20*	120

WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER has melted on all snow courses except Trial Lake and Silver Lake. Trial Lake still had 37 inches of depth containing 18.0 inches of water. Last year it had 21.3 inches of water on June 1. Silver Lake had 16 inches of snow depth containing 8.5 inches of water. A year ago it was bare on June 1.

PRECIPITATION was generally less than the May average at all mountain stations except Parley's Canyon Summit where the May precipitation was 145% of average.

RESERVOIR STORAGE is above average after very good May inflow. Strawberry now holds 235,800 acre feet or about 15,000 more than last year on June 1. Utah Lake now holds 939,200 acre feet and a year ago had 809,800 acre feet. Deer Creek is reported to be full again this year.

STREAMFLOW during May was higher than expected as a result of a cool, late spring retarding melt in April. Good streamflow is expected to carry on thru June resulting in increases in May 1 forecasts of 10 to 20%. May inflow into Strawberry Reservoir was much heavier than expected probably caused by much

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heavier snow pack at medium elevations which all melted in May this year.

Much heavier than usual May flow was produced as expected from Settlement Canyon filling the reservoir above Tooele and continued higher than average flows are expected for most of June in that area.

UTAH LAKE, JORDAN RIVER & TOOELLE WATERSHEDS

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average +
UTAH LAKE						2 yrs. ago
Camp Altamont		5/30	0	0.0		
Clear Creek Ridge #2	8000	5/25	0	0.0	0.0	0.0
Daniels Strawberry Smt.	8000	5/31	0	0.0	0.0	0.0
Dutchman R. S.	7560	5/30	0	0.0	0.0	0.0
Hobble Creek Summit	7420	5/29	0	0.0	0.0	0.0
Payson R.S.	8050	5/23	0	0.0	0.0	0.0
Soapstone R.S.	7800	5/30	0	0.0	0.0	0.0
Trial Lake	9800	5/30	37	18.0	21.3	29.9
<u>JORDAN RIVER & TOOELLE VALLEY</u>						
Lamb's Canyon	6600	5/29	0	0.0	0.0	0.0
Middle Canyon - Tooele	7000	5/31	0	0.0	0.0	0.0
Parley's Canyon Smt. x	7500	5/29	0	0.0	0.0	0.0
Vernon Creek	7500	5/31	0	0.0	0.0	0.0
Timpanogos Divide	8140	5/30	0	0.0	0.0	0.0
Mill D South Fork	7400	5/30	0	0.0	0.0	- -
Lamb's Canyon #2	7400	5/29	0	0.0	0.0	- -
Silver Lake (Brighton)	8725	5/30	16	8.5	0.0	9.0

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>UTAH LAKE</u>							
Clear Creek Ridge #2	8000	5/25	1.50	2.23b	23.91	19.52	122
Daniels-Strawberry Smt.	8000	5/31	1.88	1.92*	28.14	21.75*	129
Dutchman R.S.	7560	Gage Molested		2.67b		25.84b	
Hobble Creek Smt.	7420	5/29	1.55	- -	29.03	- -	- -
Payson R.S.	8050	5/23	1.35	2.23b	31.35	22.79	138
Soapstone R.S.	7800	5/30	1.55	2.08*	22.79	19.69*	116
Timpanogos Divide	8200	5/30	1.85	2.77	39.25	30.24	130
Trial Lake	9800	5/30	2.42	3.15	33.77	28.20*	120
<u>JORDAN RIVER & TOOKELE VALLEY</u>							
Lamb's Canyon #2	7400	5/29	3.87	- -	- -	- -	- -
Middle Canyon	7000	Not Measured				23.90*	
Mt. Dell Dam	5500	5/31	1.51	2.13	13.32	16.85	79
Parley's Canyon Smt.	7500	5/29	4.07	2.80	31.97	26.84*	119
Silver Lake (Brighton)	8725	5/31	2.95	5.41	38.60	36.20	107
Vernon Creek	7500	5/31	1.15	- -	28.68	- -	- -
Deseret Peak	9250	5/25	2.28	- -	37.81	- -	- -

“The Conservation of Water begins with the Snow Survey”

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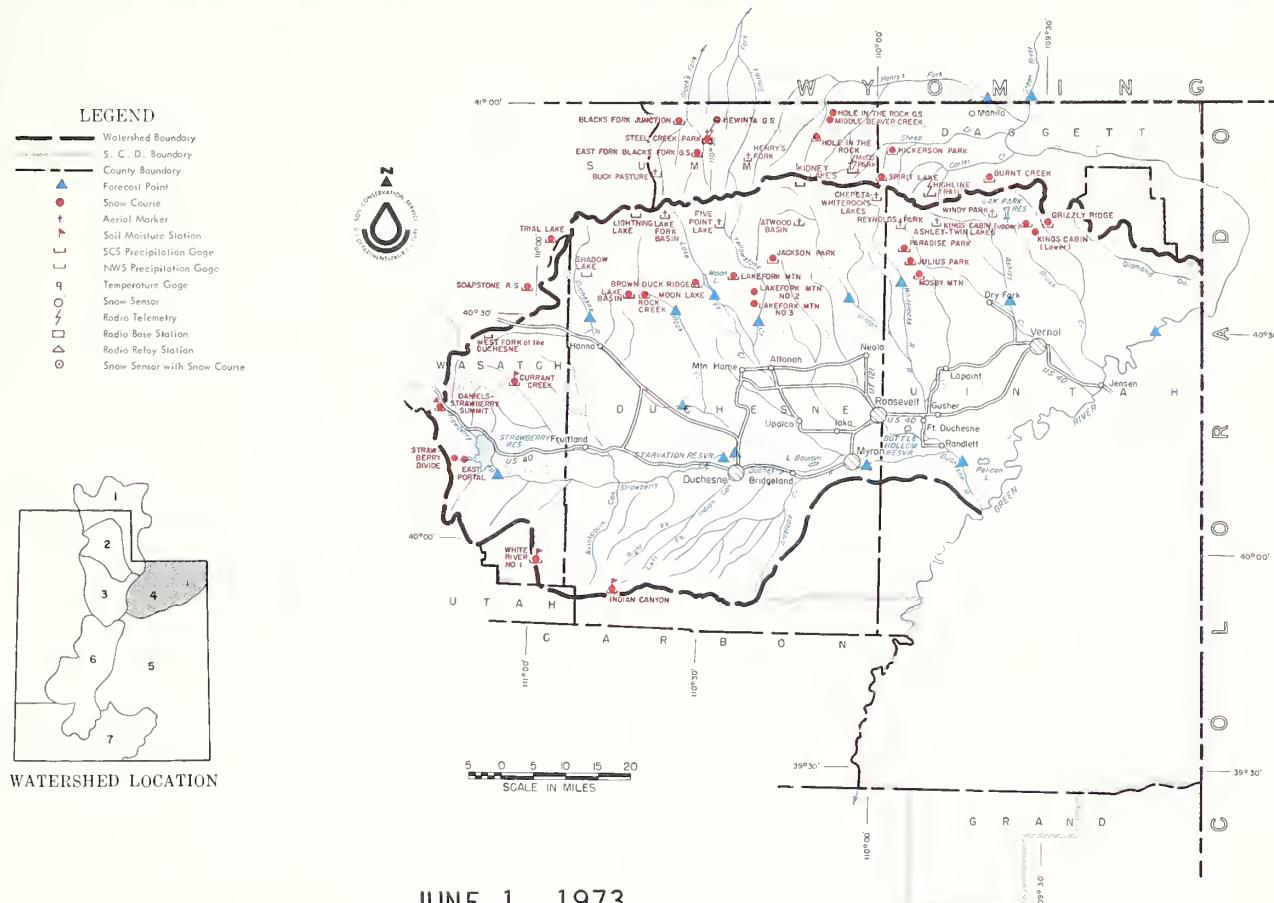
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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER remains at only the higher, more protected snow courses above about 10,000 feet. Aerial snow depth markers above 10,000 feet will be flown the first week of June to give indication of high elevation snow cover.

PRECIPITATION varied from 31% of the May 1 average at Moon Lake to 156% at King's Cabin upper on the east end of the Uintahs. The north side of the Uintahs was generally below average.

RESERVOIR STORAGE is above average with Steinaker almost full and Moon Lake lacking about 6,000 acre feet of being full. Starvation reservoir is probably full as of the first week in June.

STREAMFLOW FORECASTS remain about the same as on May 1. Ashley Creek produced high flows as expected and other streams heading in the high Uintahs are expected to peak in early June.

Strawberry River produced much more inflow to Strawberry Reservoir during May than was expected as a result of the late spring. Remaining high elevation snow is expected to continue above average streamflow for most of June and into July.

Report prepared by
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UNTAH BASIN & DAGGETT SCD's

SNOW

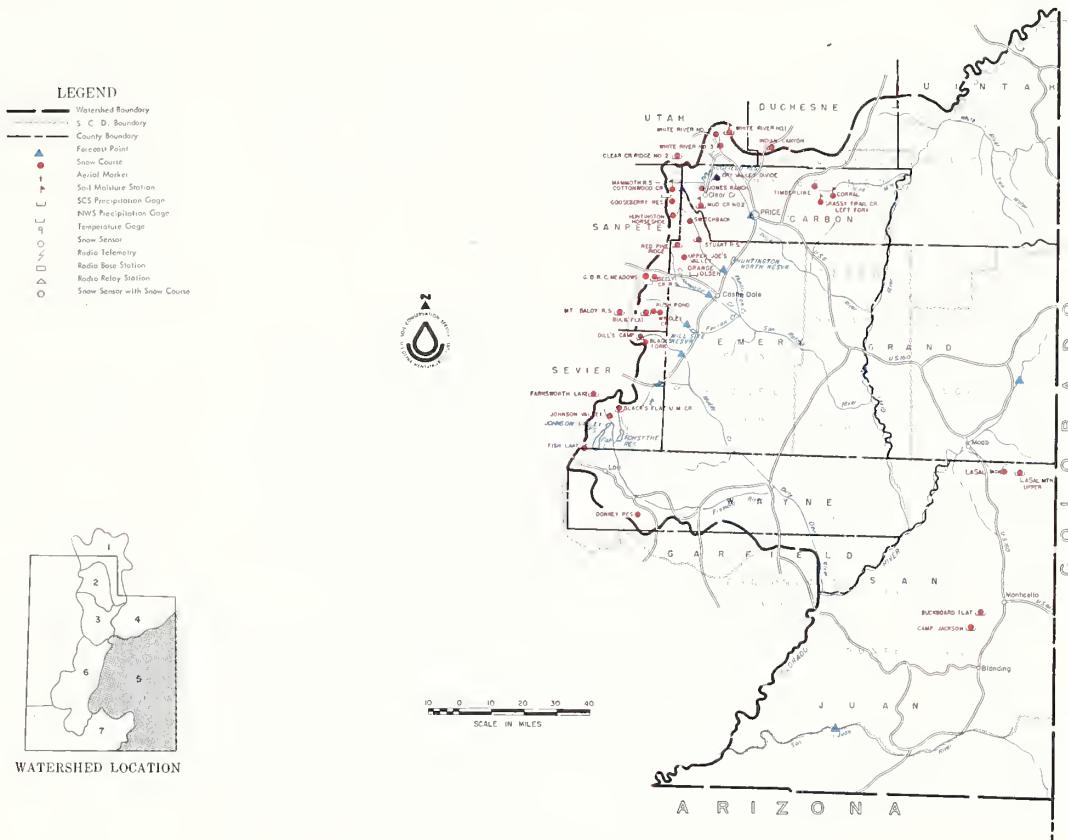
DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
						2 yrs. ago
<u>UINTAH BASIN SCD</u>						
Brown Duck Ridge	10800	Not Measured		20.3	---	
Currant Creek	7800	5/30	0	0.0	---	
Daniels Strawberry Smt.	8000	5/31	0	0.0	0.0	
Indian Canyon	9100	5/30	0	0.0	0.0	
Jackson Park	11300	5/31	19	5.9	7.4	---
Julius Park	9800	5/31	0	0.0	4.1	3.8
Lakefork Mountain	10200	5/31	0	0.0	3.2	4.1
Mosby Mountain	9500	5/31	0	0.0	0.0	2.6
Paradise Park	10100	5/30	15	5.9	8.8	10.4
Rock Creek	7900	5/31	0	0.0	0.0	0.0
Soapstone R.S. x	7800	5/30	0	0.0	0.0	0.0
Trial Lake x	9800	5/30	37	18.0	21.3	29.9
White River #1	8550	5/29	0	0.0	0.0	0.0
Grizzly Ridge	8500	5/31	0	0.0	---	---
King's Cabin	8730	5/31	0	0.0	---	---
<u>DAGGETT SCD</u>						
Black's Fork Jct.	8925	5/25	0	0.0	0.0	0.0
Burnt Creek	7900	5/29	0	0.0	0.0	0.0
E. Fk. Black's Fork G.S.	9300	5/25	0	0.0	0.0	0.0
Hewinta Guard Station	9500	5/25	0	0.0	0.0	0.0
Hickerson Park	9100	5/29	0	0.0	0.0	0.0
Spirit Lake	10300	5/29	30	12.7	10.1	13.0
Steel Creek Park	9900	Not Measured			16.6	-
<u>UINTAH BASIN - Aerial Markers</u>						
Ashley Twin Lakes A	10500				9.1	---
Atwood Basin A	10250				0.0	---
Buck Pasture A	9700			Flight	10.1	---
Chepeta-Whiterocks Lakes A	10300			Delayed	13.3	---
Five Point Lake A	11000				8.6	---
Henry's Fork A	10000				10.9	---
Lakefork Basin A	11100				16.3	---
Reynolds Park A	10400				3.8	---
Windy Park A	9400				0.0	---

PRECIPITATION (Inches)

WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER remains at only the higher, more protected areas above about 9000 feet.

PRECIPITATION at mountain locations varied from 56% at Indian Canyon to 145% of the May average at Buck Flat.

RESERVOIR STORAGE is above average with most reservoirs full or nearly full. Scofield received much better May inflow than expected and is probably full as of the first week in June.

STREAMFLOW during May was higher than expected on most streams of the area. Cool weather delayed normal April melt until May. This, coupled with above average precipitation caused some streams to produce higher flows than expected by May 1 forecasts. All streams are expected to have good water supplies this season.

Report prepared by
BOB L. WHALEY

U. S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN COUNTIES

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR		PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year
NAME	Elevation				Average +
<u>PRICE RIVER</u>					
Gooseberry Reservoir	8700	5/29	0	0.0	0.0
Indian Canyon x	9100	5/30	0	0.0	0.0
Mammoth R.S. Ctwd. Crk. x	8800	5/29	5	2.5	0.0
Mud Creek #2	8300	5/29	0	0.0	0.0
White River #1	8550	5/29	0	0.0	0.0
<u>SAN RAFAEL RIVER</u>					
Buck Flat	9400	5/30	0	0.0	0.0
Gooseberry Reservoir x	8700	5/29	0	0.0	0.0
Orange Olsen	7300	5/31	0	0.0	0.0
Red Pine Ridge	9400	5/31	0	0.0	0.0
Stuart R. S.	7950	5/31	0	0.0	0.0
Seely Crk. R.S.	10000	5/31	24	11.2	
<u>FREMONT RIVER</u>					
Black's Flat - U.M. Creek	9250	5/29	0	0.0	0.0
Mt. Baldy R.S. x	9500	Not Measured		2.2	19.3
Dill's Camp	9200	5/29	0	0.0	0.0
<u>SOUTHEASTERN UTAH DRAINAGES</u>					
Buckboard Flat	9000	5/23	5	2.4	0.0
Camp Jackson	8600	5/24	0	0.0	0.0
LaSal Mountain	8800	5/25	0	0.0	0.0
LaSal Mountain (upper)	9600	5/25	14	5.6	

b Average for all past record within 15-yr period, but less than 15 years.

x Adjacent drainage

* Partly estimated

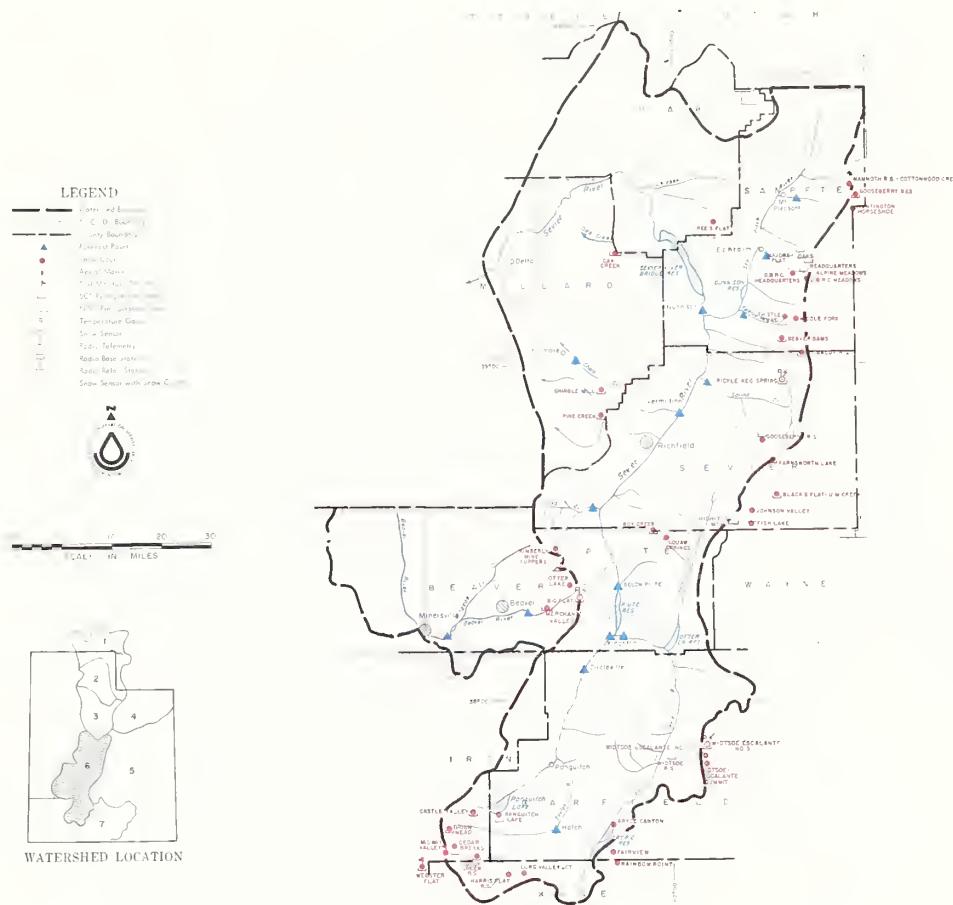
PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
PRICE RIVER							
Clear Creek Ridge	8000	5/25	1.50	2.23b	23.91	19.52*	122
Gooseberry Reservoir	8700	5/29	2.50	2.75*	30.10	23.38*	129
Indian Canyon	9100	5/30	1.13	2.00b	24.92	17.41b	143
Mammoth R.S. #2	8600	5/29	2.45	2.55*	30.39	24.30*	125
Mud Creek	8300	5/29	1.78	--	25.97	--	--
White River	8550	5/29	1.80	1.92b	20.91	17.51*	119
SAN RAFAEL RIVER							
Buck Flat	9400	5/30	3.55	2.44b	27.70	21.81*	127
G.B.R.C. Meadows x	10000	5/31	2.85	3.21	30.55	28.30	108
Gooseberry Reservoir x	8700	5/29	2.50	2.75*	30.10	23.38*	129
Orange Olsen	7300	5/31	1.10	--	13.55	--	--
Red Pine Ridge	9400	5/31	3.10	2.43b	29.75	25.05*	119
Stuart R.S.	7950	5/31	1.10	--	18.50	--	--
FREMONT RIVER							
Black's Flat-U.M. Creek	9250	5/29	2.20	2.19b	20.92	16.53*	126
Fish Lake	8700	5/29	2.12	1.50b	16.82	11.54b	146
Widtsoe-Escalante #3 x	9500	5/30	3.00	2.00*	28.58	17.19*	166
SOUTHEASTERN UTAH DRAINAGES							
Buckboard Flat	9000	5/23	2.75	2.25b	45.92	22.11b	208
Camp Jackson	8600	5/24	2.46	1.83*	42.14	18.42*	229
LaSal Mountain (upper)	9400	5/25	2.95	2.87b	31.29	19.73*	158

WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1973

THE WATER SUPPLY OUTLOOK IS EXCELLENT

SNOW COVER still remains much above average on the higher elevations above 9000 feet.

PRECIPITATION over the basin varied at mountain locations from 70% of average above Fillmore to 150% of the May average on the East Fork of Sevier.

RESERVOIR STORAGE is well above average with all reservoirs reported full and spilling except Sevier Bridge. It now holds 183,000 acre feet.

STREAMFLOW is high as forecast on May 1 and is expected to produce better than average water supplies for most of the irrigation season. Much higher flows than expected have been produced on North and Indian Creeks near Beaver. These flows helped to fill Minersville Reservoir and reports indicate that high water production on these watersheds may have been caused by fires on the watershed last year.

SEVIER RIVER BASIN Including BEAVER RIVER

SNOW

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average ⁺	This Year	Average ⁺	Percent of Average
Beaver Dams	8000	No Reading	2.75b		19.79*		
Big Flat	10290	5/30	3.44	3.03*	31.00	21.85*	142
Box Creek	9800	5/29	2.65	2.27b	25.85	18.33b	141
Castle Valley	9700	5/30	2.62	1.90b	29.10	19.99b	146
Duck Creek R.S.	8700	5/24	1.45	1.76*	34.80	21.51*	162
Fish Lake	8700	5/29	2.12	1.50b	16.82	11.54b	146
G.B.R.C. Headquarters	8700	5/31	2.20	2.80	25.55	24.15	106
G.B.R.C. Meadows	10000	5/31	2.85	3.21	30.55	28.30	108
G.B.R.C. Oaks	7655	Not Measured	2.22	--	16.85	--	
Gooseberry Reservoir x	8700	5/29	2.50	2.75*	30.10	23.38*	129
Kimberly Mine	9300	5/31	3.20	3.21*	35.40	25.54*	138
Mammoth R.S. #2x	8600	5/29	2.45	2.55*	30.39	24.30*	125
Mt. Baldy	9500	No Reading	3.36b	--	22.70*	--	
Oak Creek	7760	5/30	1.26	--	28.49	--	
Panguitch Lake	8200	5/30	1.57	1.09b	17.15	9.21b	186
Pickle Keg Springs	9600		--	--	--	--	
Pine Creek	8700	5/30	2.79	3.99	48.15	30.53b	158
Shingle Mill	6200	No Reading	2.76b	--	19.30b	--	
Webster Flat	9200	5/24	2.35	2.03	33.88	24.03	141
Widtsoe-Escalante #3	9500	5/30	3.00	2.00*	28.58	17.19*	166
Widtsoe R. S.	7600	5/30	1.19	0.97	10.54	6.34	166
Midway Valley	9800	Not Measured	--	--	--	--	
Big Flat	10290	5/30	3.44	3.03*	31.00	21.85*	142
Merchant's Valley	8650	5/23	2.04	--	26.09	--	

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generation, navigation,
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water supply for reclamation
recessory for reclamation
provides the basic data

WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

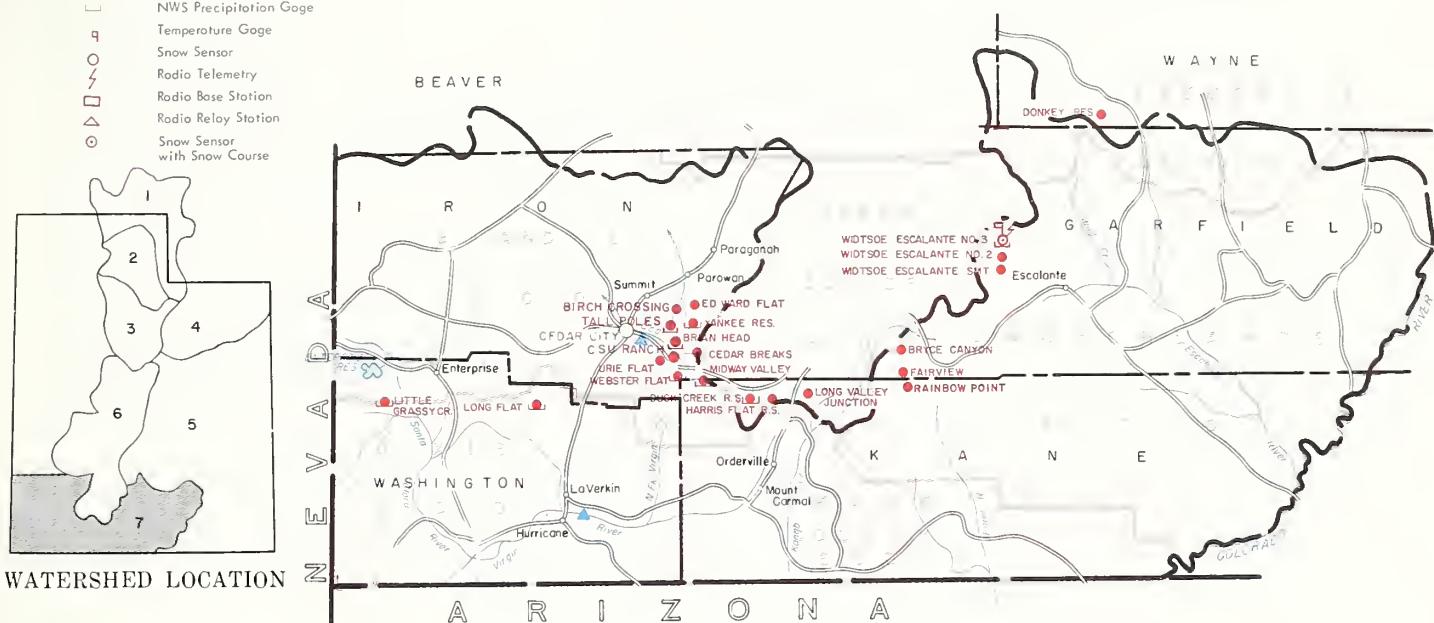
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UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**

LEGEND

- Watershed Boundary
- S. C. D. Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course
- ▲ Aerial Marker
- Soil Moisture Station
- SCS Precipitation Gage
- NWS Precipitation Gage
- Temperature Gage
- Snow Sensor
- △ Radio Telemetry
- Radio Base Station
- Radio Relay Station
- Snow Sensor with Snow Course



10 0 10 20 30 40
SCALE IN MILES



WATERSHED LOCATION

JUNE 1, 1973

THE WATER SUPPLY OUTLOOK IS EXCELLENT

SNOW COVER still remains at the high elevation snow courses above about 9000 feet.

PRECIPITATION at mountain locations varied from 82% of the May average at Duck Creek to 166% at Little Grassy, west of Enterprise. Most stations were above average for the month in this area.

RESERVOIR STORAGE in Lake Powell is now 13,852,000 acre feet. Most small reservoirs in the area have been full and spilling for some time.

STREAMFLOW is beginning to recede after producing higher than normal peaks as expected. Flows are progressing about as forecast on May 1 and are expected to continue higher than normal for the month of June.

Report prepared by
BOB L. WHALEY

U. S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
FEDERAL BLDG., ROOM 4012 - SALT LAKE CITY, UTAH 84111

EAST GARFIELD, KANE, WASHINGTON & IRON

SNOW

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>ESCALANTE RIVER</u>							
Widtsoe-Escalante #3	9500	5/30	3.00	2.00*	28.58	17.19*	166
<u>VIRGIN RIVER</u>							
Duck Creek R.S.	8700	5/24	1.45	1.76*	34.80	21.51*	162
Webster Flat	9200	5/24	2.35	2.03	33.88	24.03	141
<u>COAL CREEK</u>							
Webster Flat	9200	5/24	2.35	2.03	33.88	24.03	141
<u>PAROWAN CREEK</u>							
Tall Poles	8800	5/25	2.85	--	32.40	--	--
Yankee Reservoir	8700	5/25	2.30	1.71b	20.85	15.70b	133
<u>ENTERPRISE TO NEW HARMONY DRAINAGE</u>							
Little Grassy Creek	6100	6/1	1.33	0.80b	30.38	14.54b	209
Long Flat	8000	5/23	2.10	1.44b	27.65	15.29b	181

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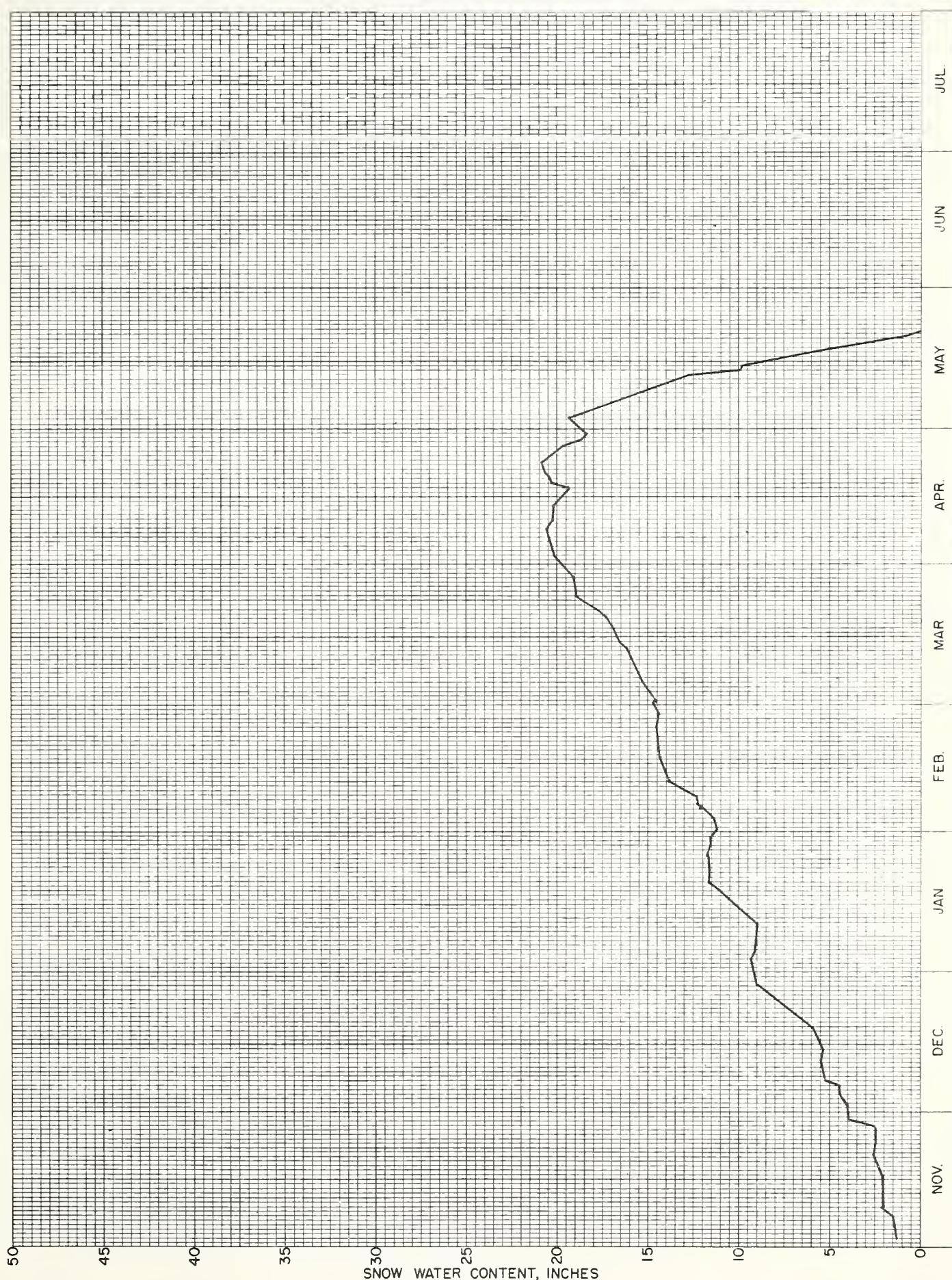
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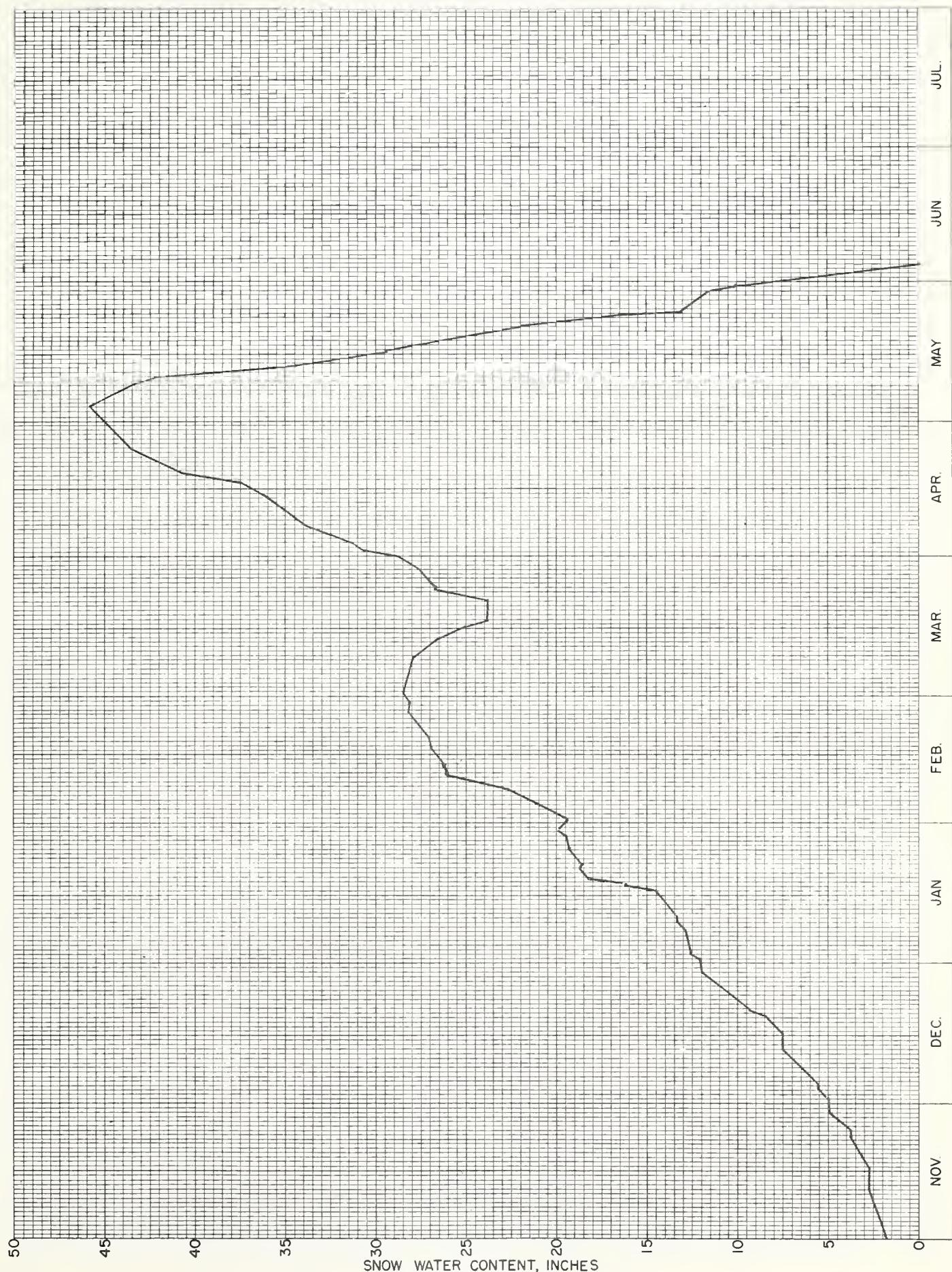
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Accessories for irrigation
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HORSE RIDGE

SNOW PILLOW DATA
WATER YEAR 73No. 11H21 Elev. 8260 Drainage: Lost Creek

FARMINGTON CANYON (upper)

SNOW PILLOW DATA
WATER YEAR 73No. 11J11Elev. 8000Drainage: Farmington Creek

PARLEY'S CANYON SUMMIT

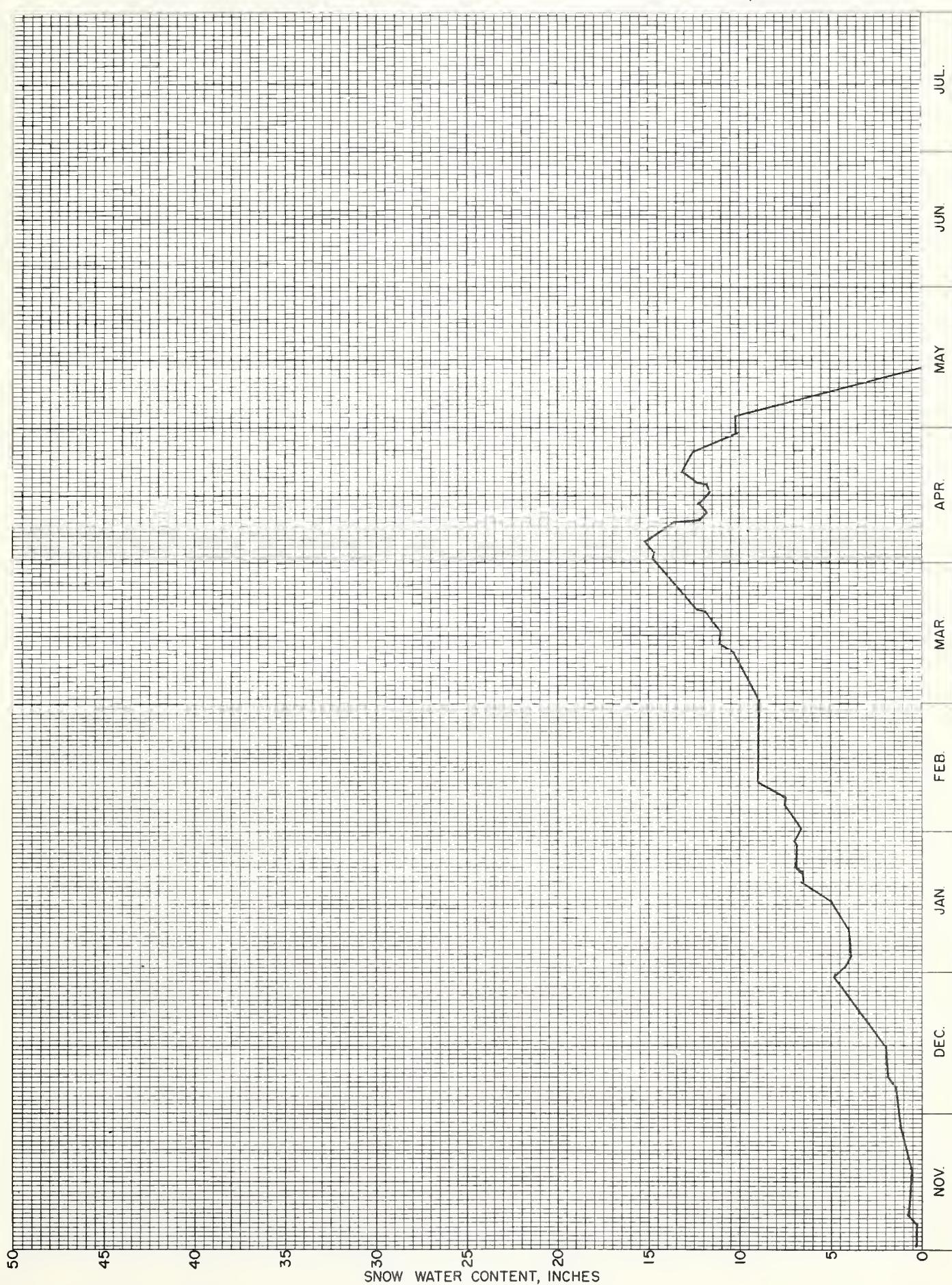
SNOW PILLOW DATA
WATER YEAR 73

No. 11J15

Elev.

7500

Drainage: East Canyon Crk-Weber River



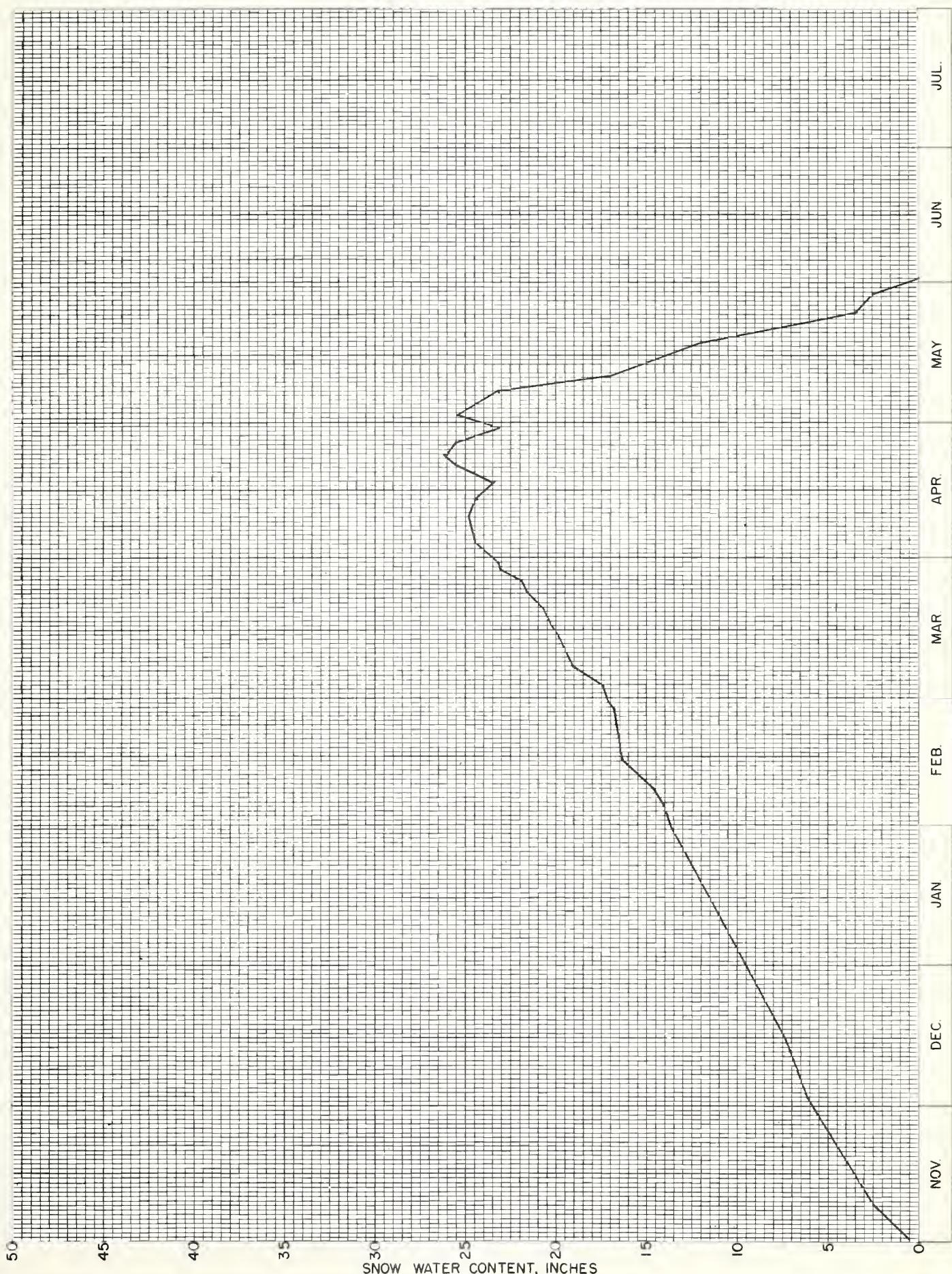
PICKLE KEG SPRINGS

SNOW PILLOW DATA
WATER YEAR 73

No. 11K39

Elev. 9600

Drainage: Salina Creek



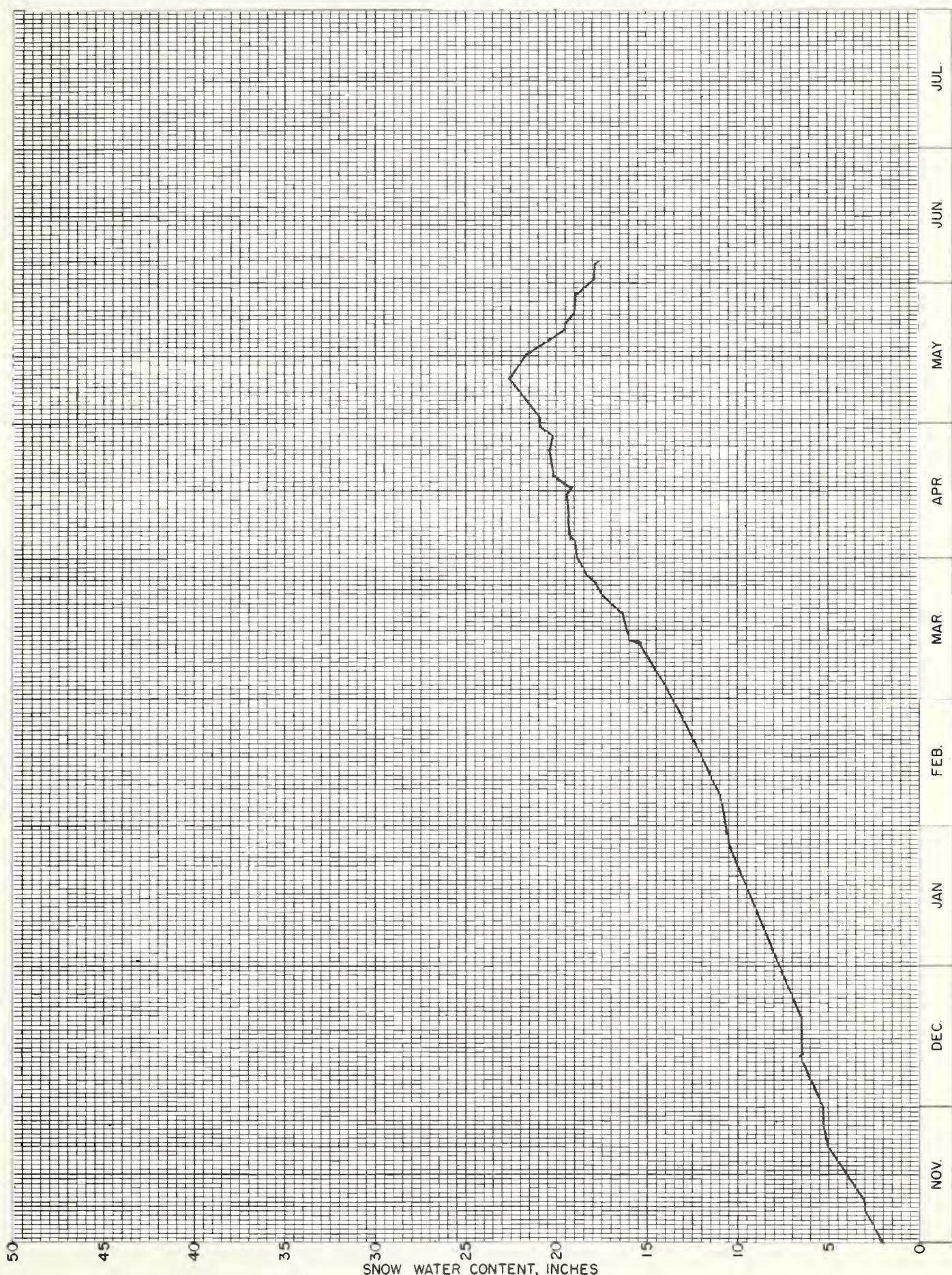
BIG FLAT

SNOW PILLOW DATA
WATER YEAR 73

No. 12L7

Elev. 10,000

Drainage: Beaver River



WIDTSOE-ESCALANTE #3

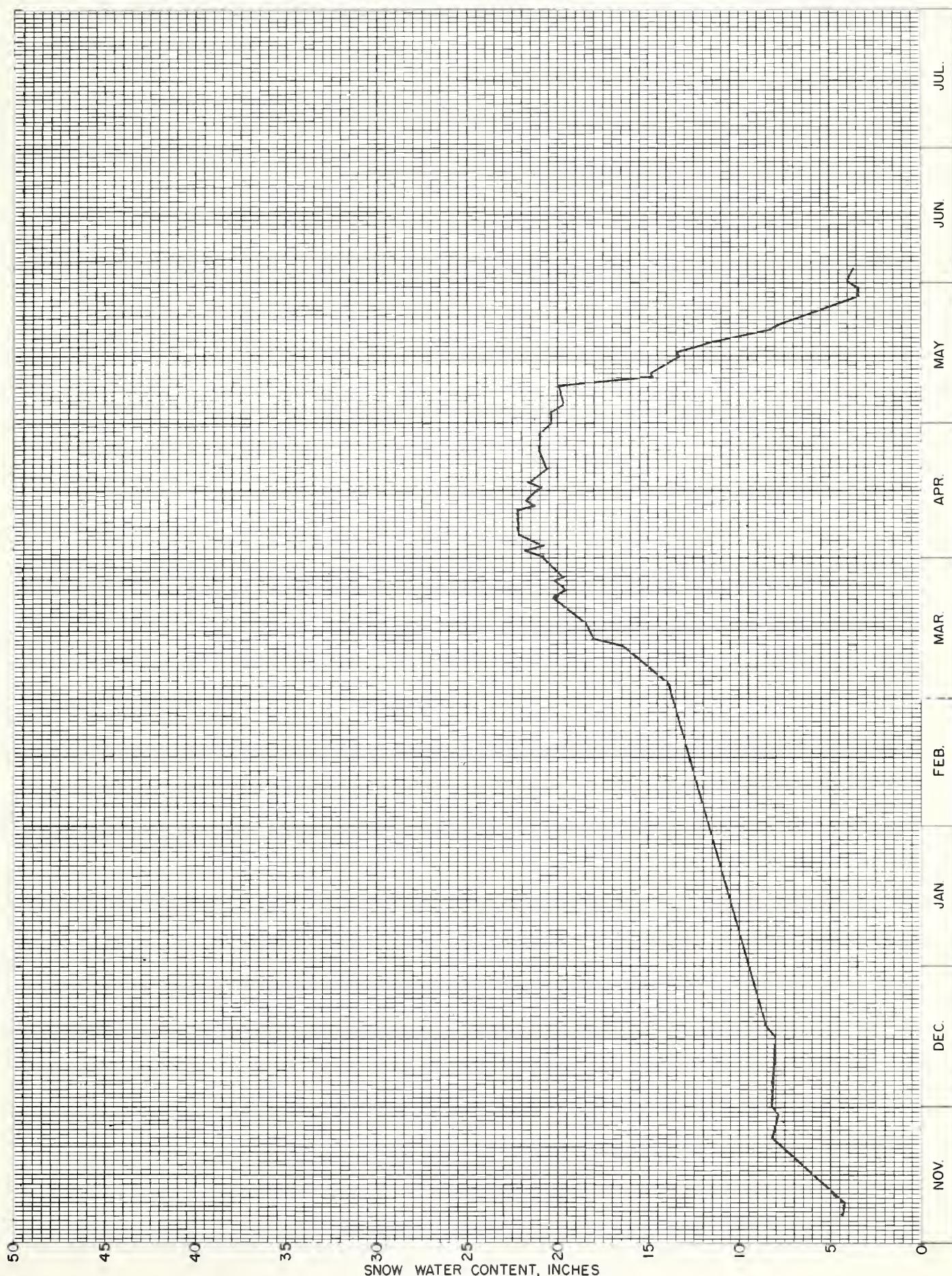
SNOW PILLOW DATA
WATER YEAR 73

No. 11M3

Elev.

9500

Drainage: East Fork-Sevier River



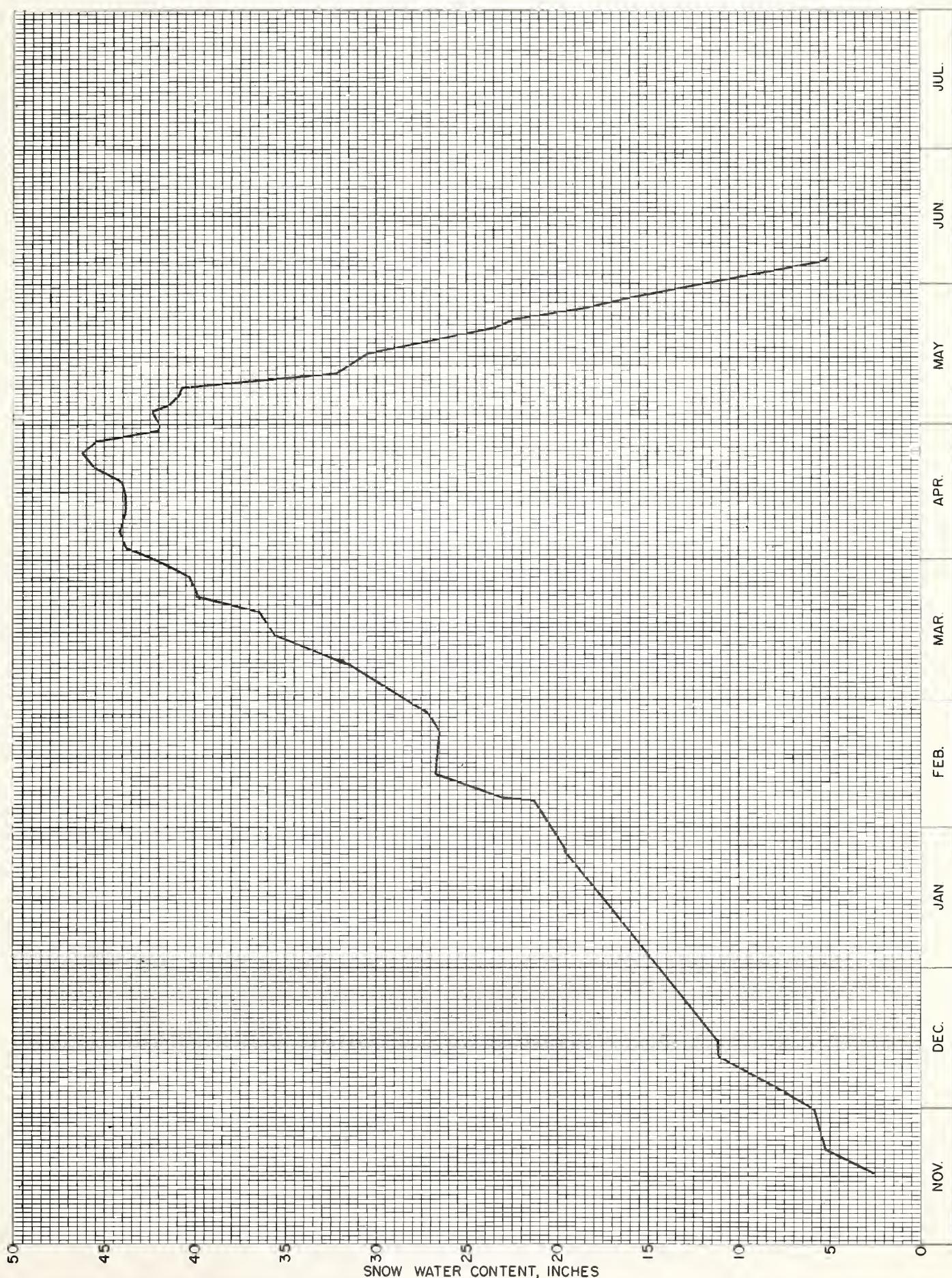
KOLOB-CRYSTAL

SNOW PILLOW DATA
WATER YEAR 73

No. 13M5

Elev. 9250

Drainage: Crystall Creek



Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation



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SOIL CONSERVATION SERVICE
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